

RECEIVED
CENTRAL FAX CENTER
MAR 09 2009

Please amend the application as follows:

IN THE CLAIMS:

MARKED-UP VERSION OF THE AMENDED CLAIMS:

1. (original) A drive device for passage barriers or thoroughfare barriers and door or gate drives, having a brushless DC servo motor, characterized in that the DC servo motor (5) has an associated servo controller and the output shaft of the DC servo motor (5) is connected directly to the drive shaft of the barrier element (2).
2. (currently amended) The drive device as claimed in claim 1, characterized by a compact complete control device which comprises the servo controller and a logic section and a housing, and which serves to control the motor (5) as a function of signals and wherein a rotation axis of the output shaft of the DC servo motor (5) coincides with a rotation axis of the drive shaft of the barrier element (2).
3. (original) The drive device as claimed in claim 2, characterized in that the logic section is designed as a pluggable logic circuit board.

4. (original) The drive device as claimed in claim 3, characterized in that different logic circuit boards can be plug-connected, different movement profiles and programs which are directed at various applications are prespecified on said logic circuit boards, and said logic circuit boards have different numbers of inputs and outputs and different operator control and display elements, depending on requirements.
5. (original) The drive device as claimed in claim 1, characterized by a transmitter system which is integrated in the motor and supplies the required control signals.
6. (currently amended) The drive device as claimed in claim 5 [[6]], characterized in that the motor mount is formed as a fixed mount on the side of the transmitter system.
7. (currently amended) The drive device as claimed in claim [[6]] 5, characterized in that the transmitter system is connected to the motor plate by means of plug connection or clamping.

8. (currently amended) The drive device as claimed in claim 7 ([8]), characterized in that the plug connection is designed to be secure against polarity reversal and is provided with a locking means.

9. (original) The drive device as claimed in claim 1, characterized in that commutation and position control in the motor are performed by means of a magnetoresistive sensor.

10. (original) The drive device as claimed in claim 1, characterized in that commutation and position control in the motor are performed by means of resolvers or encoders or Hall sensors.

11. (original) The drive device as claimed in claim 1, characterized in that a linkage can be interconnected between the servo motor and the barrier element which is to be moved.

12. (original) The drive device as claimed in claim 1, characterized in that a step-down gear mechanism and a linkage can be interconnected between the servo motor and the element which is to be moved.

13. (original) The drive device as claimed in claim 2, characterized in that the inputs and outputs are separate from the actual motor control system/logic circuit board and designed as an independent module.
14. (original) The drive device as claimed in claim 13, characterized in that the inputs and outputs can be connected by a pluggable bus connection or a pluggable, multicore cable.
15. (new) A drive device for passage barriers or thoroughfare barriers and door or gate drives, comprising
a brushless DC servo motor (5);
an output shaft formed at the brushless DC servo motor (5) and having an axis;
a barrier element (2);
a drive shaft formed at the barrier element (2) and having an axis, wherein the output shaft of the brushless DC servo motor (5) is solidly attached to the drive shaft formed at the barrier element (2) and wherein the axis of the output shaft and the axis of the drive shaft coincide;
a servo controller connected to the brushless DC servo motor (5).

16. (new) The drive device as claimed in claim 15 further comprising, a logic section connected to the servo controller; a housing surrounding the servo controller and the logic section, wherein the servo controller, the logic section, and the housing form a compact complete control device which serves to control the brushless DC servo motor (5) as a function of signals, wherein the servo controller is furnished as a circuit board.
17. (new) The drive device as claimed in claim 16, further comprising output stage modules disposed at the servo controller, wherein the logic section is constructed as a pluggable logic circuit board, wherein the housing is composed of an aluminum extruded profile with rails as retaining devices and integrated in the profile cross section for inserting the circuit board and with screw channels for fixing a lateral cover plate and an upper cover plate, wherein the lateral cover plate is firmly connected to the output stage modules of the servo controller and wherein the lateral cover plate serves simultaneously as a heat sink and to fix the servo controller circuit board in the control housing;

a bus connected to the servo controller and to the logic section, wherein the servo controller, wherein the servo controller and the logic section communicate through the bus;

a lateral aperture furnished in the lateral cover plate;

an upper aperture furnished in the upper cover plate, wherein the lateral aperture corresponds to the lateral aperture, and wherein the lateral aperture and the upper aperture are furnished for input and output terminals or plugs..

18. (new) The drive device as claimed in claim 17, wherein different exchangeable logic circuit boards can be plug-connected, different movement profiles and programs which are directed at various applications are prespecified on said logic circuit boards, and said logic circuit boards have different numbers of inputs and outputs and different operator control and display elements, depending on a desired motion of the shaft of the brushless DC servo motor (5).

19. (new) The drive device as claimed in claim 15, further comprising a transmitter system which is integrated in the motor and supplies required control signals.

20. (new) The drive device as claimed in claim 19, further comprising a motor mount formed as a fixed mount on the side of the transmitter system.

21. (new) The drive device as claimed in claim 19, further comprising a motor plate (3), wherein the transmitter system is connected to the motor plate (3) by means of a plug connection or by clamping.

22. (new) The drive device as claimed in claim 21, further comprising a locking unit (6) connected to the barrier element (2), wherein the locking unit (6) holds the barrier element (2) securely in its closed position and its open position and allowing the brushless DC servo motor (2) to stop in any position, and wherein the plug connection is constructed to be secure against polarity reversal.

23. (new) The drive device as claimed in claim 15, further comprising

a magnet wheel or a polarized magnetic ring;

a magnetoresistive sensor sensing the magnet wheel or the polarized magnetic ring, wherein the magnetoresistive sensor is connected to the servo

controller for performing commutation and position control in the brushless DC servo motor (5).

24. (new) The drive device as claimed in claim 16, wherein inputs and outputs are separate from the actual motor control system/logic circuit board and are constructed as an independent module.